

## Power Schottky Rectifier - 30Amp 200Volt

**Features**

- Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- High Junction Temperature Capability
- Low forward voltage, high current capability
- High surge capacity
- Low power loss, high efficiency
- ESD performance human body mode > 4 KV

**Application**

- SMPS
- PDP

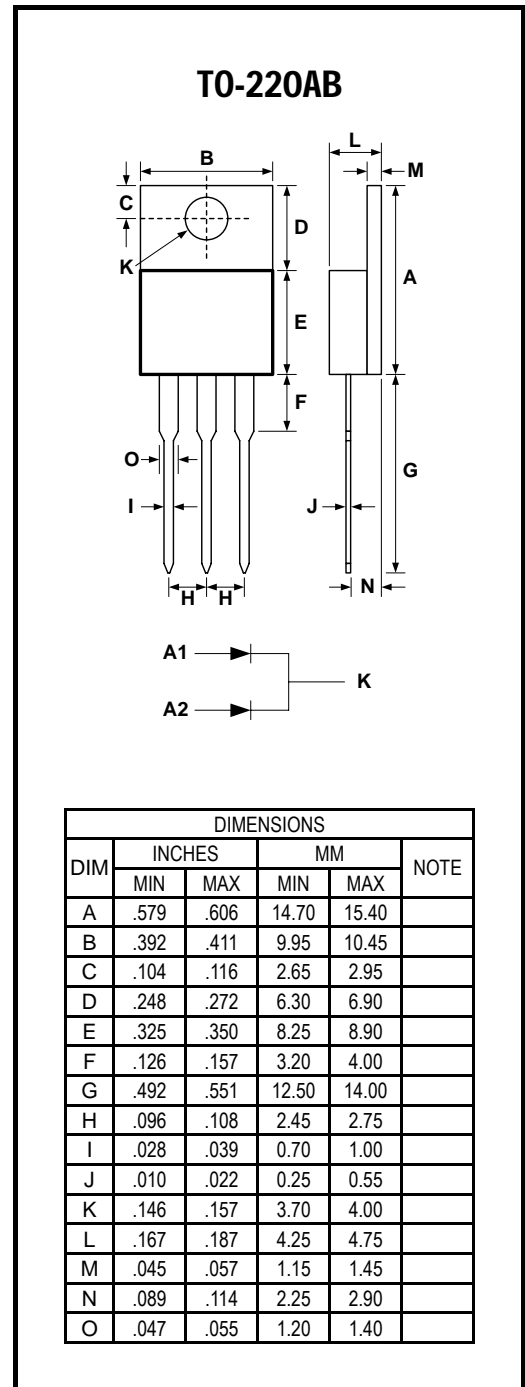
**Absolute maximum ratings**

Symbol	Ratings	Unit	Conditions
I <sub>F(AV)</sub>	30	A	Average Forward Current
V <sub>RRM</sub>	200	V	Repetitive Peak Reverse Voltage
I <sub>FSM</sub>	350	A	Peak Forward Surge Current
V <sub>F(max)</sub>	0.75	V	Forward Voltage Drop
T <sub>j</sub>	-50 to +175	°C	Operating Temperature
T <sub>stg</sub>	-50 to +150	°C	Storage Temperature

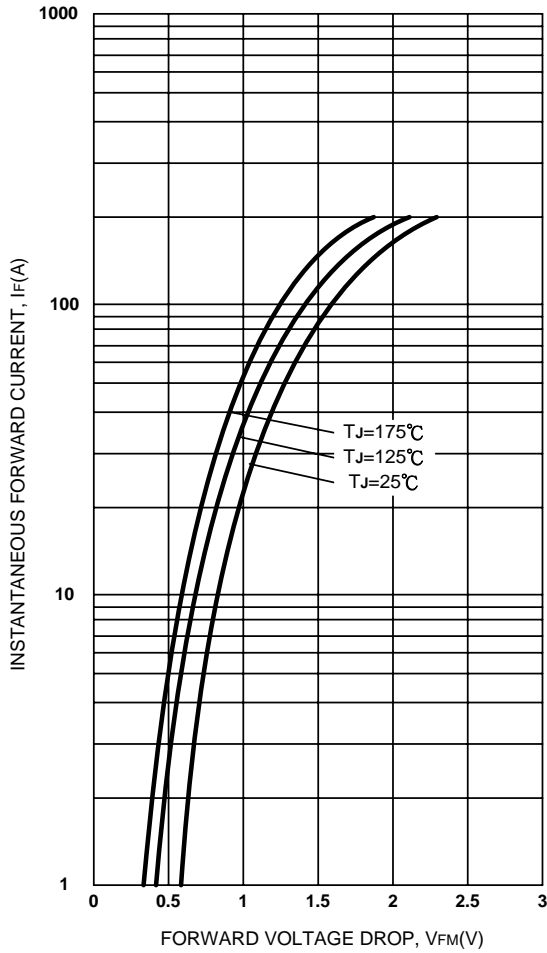
**Electrical characteristics**

Parameters	Symbol	Ratings	Conditions
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.92V	T <sub>c</sub> = 25°C
Forward Voltage		0.75V	T <sub>c</sub> = 125°C
Maximum Reverse Leakage Current	I <sub>R</sub>	0.01mA	T <sub>c</sub> = 25°C
Current		10mA	T <sub>c</sub> = 125°C
Maximum Voltage Rate of Change	dv/dt	10,000 V/μs	Rated V <sub>R</sub>
Typical Thermal Resistance, Junction to Case	R <sub>θ(j-c)</sub>	2.2 °C/W	Per diode

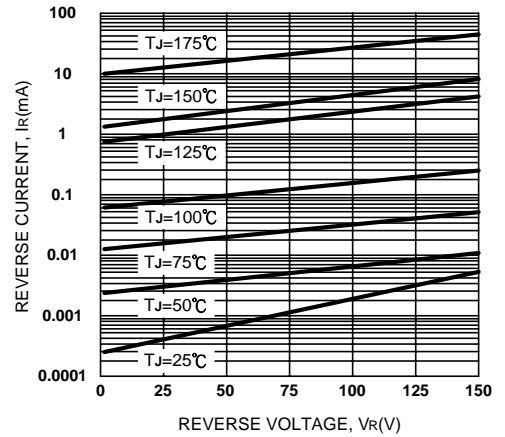
Note: Pulse Test : 380μs pulse width, 2% duty cycle



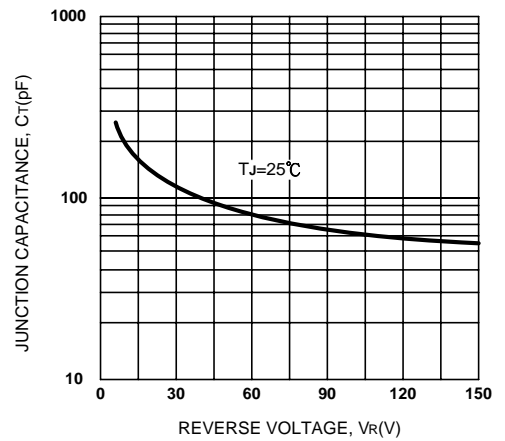
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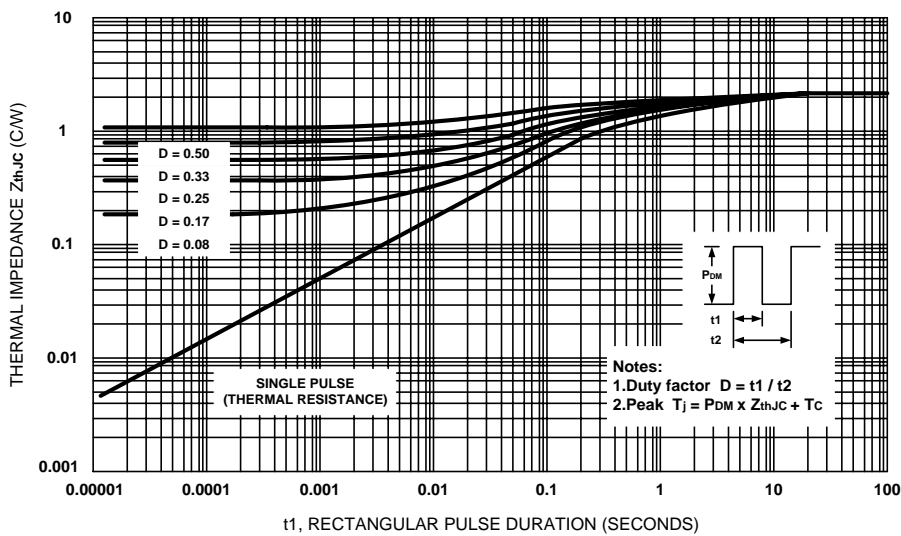
**Figure 1. Max. Forward Voltage Drop Characteristics (PerLeg)**



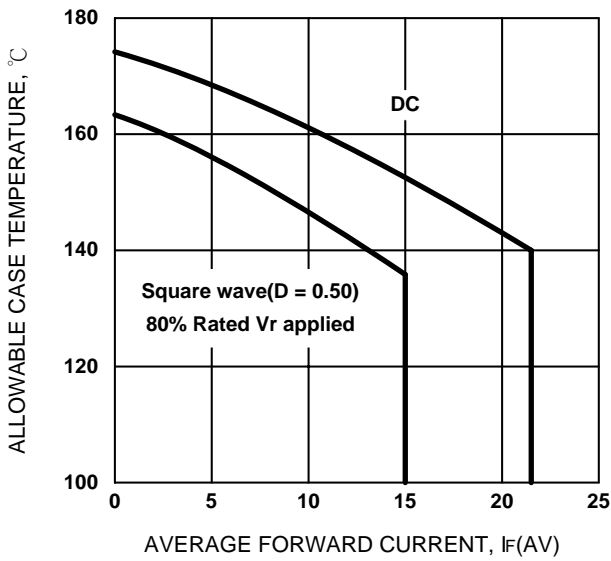
**Figure 2. Typical Values Of Reverse Current Vs. Reverse Voltage (PerLeg)**



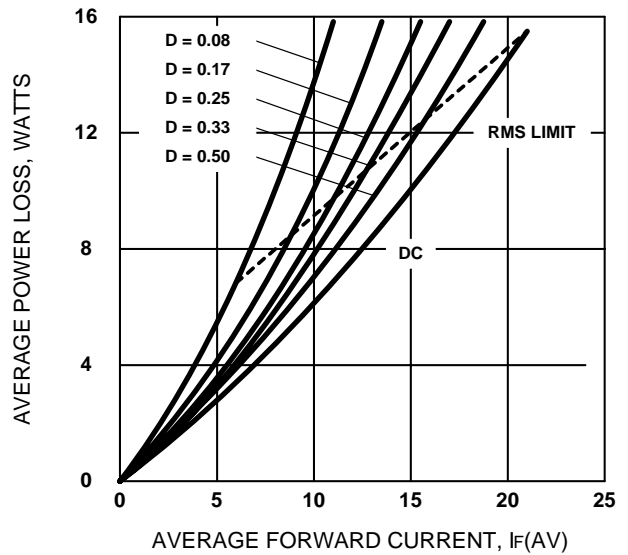
**Figure 3. Typical Junction Capacitance Vs. Reverse Voltage (PerLeg)**



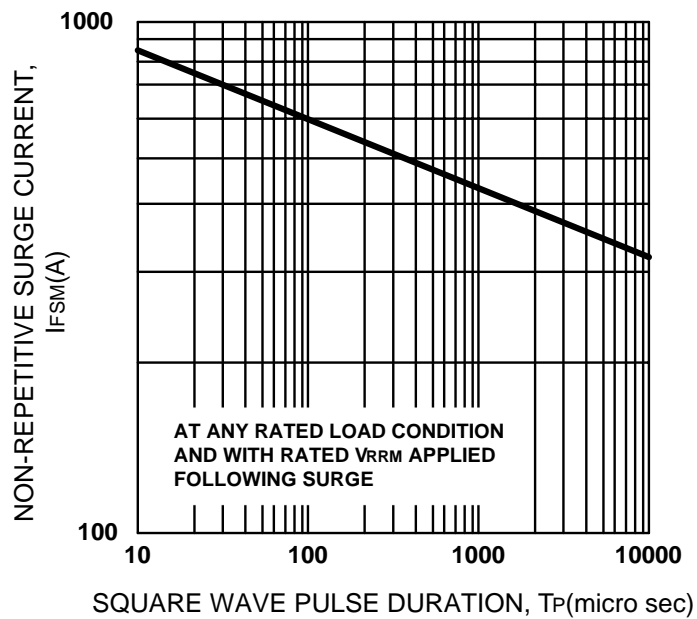
**Figure 4. Max. Thermal Impedance  $Z_{thJC}$  Characteristics (PerLeg)**



**Figure 5. Max. Allowable Case Temperature Vs. Average Forward Current (PerLeg)**



**Figure 6. Forward Power Loss Characteristics (PerLeg)**



**Figure 7. Max. Non-Repetitive Surge Current (PerLeg)**